

Applicant: Brodeur et al.
Application Serial No.: 09/723,852
Filing Date: November 28, 2000
Docket No.: 760-19 RCE II
Page 3

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (canceled)

Claim 2. (previously amended) The composite tubular prosthesis according to claim 22, wherein said first tubular body is an inner tubular body and said tubular form is an outer tubular body of said prosthesis.

Claim 3. (previously amended) The composite tubular prosthesis according to claim 22, wherein said first tubular body is an outer tubular body and said tubular form is an inner tubular body of said prosthesis.

Claim 4. (previously amended) The composite tubular prosthesis according to claim 22, wherein the PTFE of said first tubular body is expanded PTFE.

Claim 5. (previously amended) The composite tubular prosthesis according to claim 22, wherein said deformable support structure is a stent.

Applicant: Brodeur et al.
Application Serial No.: 09/723,852
Filing Date: November 28, 2000
Docket No.: 760-19 RCE II
Page 4

Claims 6-8 (canceled)

Claim 9. (previously amended) The composite intraluminal prosthesis according to claim 22, wherein said first tubular body is formed of a sheet or spirally wrapped strip.

Claim 10. (previously amended) The composite intraluminal prosthesis as in claim 22, wherein the first tubular body is an extruded PTFE tube.

Claim 11. (previously amended) The composite intraluminal prosthesis as in claim 22, wherein the PTFE of said tubular form is ePTFE.

Claim 12. (previously amended) The composite intraluminal prosthesis according to claim 22, wherein the deformable support structure is a wire stent with longitudinally adjacent waves being nested along the length of said first tubular body and peaks of said longitudinally nested waves are linearly aligned.

Claim 13. (previously amended) The composite intraluminal prosthesis according to claim 22, wherein the first tubular body is secured to said tubular form by thermal bonding.

Applicant: Brodeur et al.
Application Serial No.: 09/723,852
Filing Date: November 28, 2000
Docket No.: 760-19 RCE II
Page 5

Claim 14. (canceled)

Claim 15. (previously amended) The composite intraluminal prosthesis according to claim 22, wherein said tubular first body is comprised of a sheet of expanded polytetrafluoroethylene formed into a tubular shape by wrapping said sheet about a longitudinal axis.

Claims 16-21 (canceled)

Claim 22. (currently amended) An implantable composite tubular prosthesis comprising:
a first polytetrafluoroethylene tubular body;
a plurality of generally straight separate and independent polytetrafluoroethylene yarn-shaped strips, said strips being arranged to define a tubular form with said strips being generally parallel and arranged in non-overlapping relationship; and
a circumferential deformable support structure interposed between said first tubular body and said tubular form, wherein said strips being secured to said first tubular body.

Claim 23. (previously presented) An implantable composite tubular prosthesis comprising:

Applicant: Brodeur et al.
Application Serial No.: 09/723,852
Filing Date: November 28, 2000
Docket No.: 760-19 RCE II
Page 6

a first plurality of generally straight polytetrafluoroethylene strips, said first strips being arranged to define a first tubular form with said first strips being generally parallel and arranged in non-overlapping relationship to create gaps therebetween;

a second plurality of generally straight, separate and independent polytetrafluoroethylene strips said second strips being arranged to define a second tubular form with said second strips being generally parallel and arranged in non-overlapping relationship to create gaps therebetween; and

a circumferential deformable support structure interposed between said first tubular form and said second tubular form, wherein the strips of said first tubular form at least partially overlap the gaps of said second tubular form to secure the support structure.

Claim 24. (currently amended) A method of providing axial and circumferential compliance to an intraluminal prosthesis stent/graft composite comprising:

- a) providing a first polytetrafluoroethylene tubular body;
- b) positioning a deformable support structure over said first tubular body;
- c) positioning a plurality of generally parallel, separate and independent polytetrafluoroethylene yarn-shaped strips arranged in non-overlapping relationship over said support structure to form a tubular form; and
- d) securing said strips to said first tubular body.

Applicant: Brodeur et al.
Application Serial No.: 09/723,852
Filing Date: November 28, 2000
Docket No.: 760-19 RCE II
Page 7

Claim 25. (currently amended) A method of providing axial and circumferential compliance to an intraluminal prosthesis stent/graft composite comprising:

- a) providing a plurality of generally parallel, separate and independent polytetrafluoroethylene strips arranged to define a first tubular form, said strips being arranged in non-overlapping relationship to form gaps therebetween;
- b) positioning a deformable support structure over said first tubular form;
- c) positioning a second plurality of generally parallel, separate and independent polytetrafluoroethylene strips, said second strips being arranged in non-overlapping relationship to define a second tubular form having gaps between the second strips, wherein said second tubular form is positioned at least partially over the gaps of said first tubular form; and
- d) securing said second tubular form to said first tubular form to form said prosthesis.